

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1.(Cancelled)

2.(Currently Amended) A method for detecting a monocyte, which comprises the steps of:

(1) contacting ~~the antibody of claim 1~~ an antibody with a blood cell sample predicted to comprise a monocyte, and

(2) detecting a blood cell that has bound to the antibody in step (1);

wherein the antibody binds to a protein or a polypeptide selected from the group consisting of:

(a) an HIDE1 protein;

(b) a protein encoded by a nucleotide sequence that hybridizes to a complementary sequence of an HIDE1 gene under stringent conditions;
and

(c) a polypeptide fragment with at least eight amino acid residues, wherein the fragment is derived from the protein of (a) or (b).

3.(Currently Amended) A method for isolating a monocyte, which comprises the steps of:

(1) contacting ~~the antibody of claim 1~~ an antibody with a blood cell sample predicted to comprise a monocyte, and

(2) collecting a blood cell that has bound to the antibody in step (1);

wherein the antibody binds to a protein or a polypeptide selected from the group consisting of:

(a) an HIDE1 protein;

(b) a protein encoded by a nucleotide sequence that hybridizes to a
complementary sequence of an HIDE1 gene under stringent conditions;
and
(c) a polypeptide fragment with at least eight amino acid residues, wherein
the fragment is derived from the protein of (a) or (b).

4.(Original) The method of claim 2 or 3, wherein the blood cell sample is
peripheral blood, cord blood, or bone marrow.

5-21.(Cancelled)